COH

Robin Painte



Manufacturer	**COH**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**44, 45 channels**
Beam angle	**8-48°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**280 × 420 × 231 mm**
GDTF fixture type	**92BEC20A-4CE0-44D4-B6B8-9B…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 1 - Standard 16 bit	44 ch
Mode 2 - enhanced gobo control	45 ch

Mode 1 - Standard 16 bit

44 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–31 Fans ON at blackout 32–33 Fans OFF at blackout 34–35 Dimmer curve: Super square law 36–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–64 BO while color wheels moving: ON 65–69 BO while color wheels moving: OFF 70–74 BO while Gobo moving: ON 75–79 BO while Gobo moving: OFF 80–84 Fans mode: Auto 85–89 Fans mode: High 90–99 NoFeature 2 100–104 Focus tracking ON 105–109 Focus tracking OFF 110–114 Dimmer curve: Square law 115–119 Dimmer curve: Linear 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–159 Color system reset 160–169 Gobo and Effect wheel reset 170–174 Pan reset 175–179 Tilt reset 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–218 NoFeature 3 219–220 Gobo indexing: Maximum speed and shortcut 221–222 Gobo indexing: Follow speed and follow direction 223–224 Gobo indexing: Maximum speed and follow directi... 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
8	L EDFrequency Adjust	128	

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
9	Intensity Indication	0	0–10 No function 11–20 Indication of drop of max light intensity 21–30 Set drop by 6-10% (RED) 31–40 Set drop by 11-15% (GREEN) 41–50 Set drop by 16-20% (BLUE) 51–60 Set drop by 21-25% (CYAN) 61–70 Set drop by 26-30% (MAGENTA) 71–80 Set drop by 31-35% (YELLOW) 81–90 Set drop by 36-40% (ORANGE) 91–100 Original intensity (WHITE) 101–255 NoFeature
10	Color Wheel	0	0–5 Open/white - continual (wheel slot 1) 6–17 Deep red (wheel slot 2) 18–31 Deep blue (wheel slot 3) 32–44 Light green (wheel slot 4) 45–56 Lavender (wheel slot 5) 57–69 Orange (wheel slot 6) 70–82 Multicolor (wheel slot 7) 83–95 Filter CRI 90 (wheel slot 8) 96–108 CTO 3200K (wheel slot 9) 109–120 Congo blue (wheel slot 10) 121–127 Open (wheel slot 1) 128–129 Open - step (wheel slot 1) 130–136 Deep red - step (wheel slot 2) 137–142 Deep blue - step (wheel slot 3) 143–149 Light green - step (wheel slot 4) 150–155 Lavender - step (wheel slot 5) 156–162 Orange - step (wheel slot 6) 163–168 Multicolor - step (wheel slot 7) 169–175 Filter CRI 90 - step (wheel slot 8) 176–182 CTO 3200K - step (wheel slot 9) 183–189 Congo blue - step (wheel slot 10) 190–211 Fast to slow - fast 212–215 Fast to slow - slow 216–217 No Rotation middle 218–240 Slow to fast - slow 241–243 Slow to fast - fast 244–249 Random color selection by audio control 250–255 Auto random color selection from fast to slow
11	Color Wheel Fine	0	Fine byte of Color Wheel
12	Cyan	0	
13	Magenta	0	
14	Yellow	0	
15	C TO	0	0–46 6700 47–71 6000 72–112 5600 113–134 5000 135–158 4800 159–182 4500 183–205 4000 206–227 3600 228–235 3200 236–248 3000 249–254 2800 255–255 2700
16	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
17	Color Macro1	0	

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
18	Color Mix MSpeed	0	0–0 Function is OFF 1–254 max 255–255 min
19	Focus MSpeed	0	0–0 Function is OFF 1–254 max 255–255 min
20	Gobo	0	0–8 Open/hole (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–80 Gobo 8 (wheel slot 9) 81–91 Gobo 9 (wheel slot 10) 92–103 Gobo 1 - Shaking Index (wheel slot 2) 104–115 Gobo 2 - Shaking Index (wheel slot 3) 116–127 Gobo 3 - Shaking Index (wheel slot 4) 128–139 Gobo 4 - Shaking Index (wheel slot 5) 140–151 Gobo 5 - Shaking Index (wheel slot 6) 152–163 Gobo 6 - Shaking Index (wheel slot 7) 164–175 Gobo 7 - Shaking Index (wheel slot 8) 176–187 Gobo 8 - Shaking Index (wheel slot 9) 188–199 Gobo 9 - Shaking Index (wheel slot 10) 200–201 Open/hole (wheel slot 1) 202–219 Fast to slow - Fast 220–222 Fast to slow - Slow 223–238 Slow to fast - Slow 239–243 Slow to fast - Fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
21	Gobo 2	0	0–9 Open/hole (wheel slot 1) 10–13 Gobo 1 (wheel slot 2) 14–17 Gobo 2 (wheel slot 3) 18–21 Gobo 3 (wheel slot 4) 22–25 Gobo 4 (wheel slot 5) 26–29 Gobo 5 (wheel slot 6) 30–33 Gobo 6 (wheel slot 7) 34–37 Gobo 7 (wheel slot 8) 38–41 Gobo 8 (wheel slot 9) 42–45 Gobo 1 - Rotation (wheel slot 2) 46–49 Gobo 2 - Rotation (wheel slot 3) 50–53 Gobo 3 - Rotation (wheel slot 4) 54–57 Gobo 4 - Rotation (wheel slot 5) 58–61 Gobo 5 - Rotation (wheel slot 6) 62–65 Gobo 6 - Rotation (wheel slot 7) 66–69 Gobo 7 - Rotation (wheel slot 8) 70–73 Gobo 8 - Rotation (wheel slot 9) 74–81 Gobo 1 - Shaking Index (wheel slot 2) 82–89 Gobo 2 - Shaking Index (wheel slot 3) 90–97 Gobo 3 - Shaking Index (wheel slot 4) 98–105 Gobo 4 - Shaking Index (wheel slot 5) 106–113 Gobo 5 - Shaking Index (wheel slot 6) 114–121 Gobo 6 - Shaking Index (wheel slot 7) 122–129 Gobo 7 - Shaking Index (wheel slot 8) 130–137 Gobo 8 - Shaking Index (wheel slot 9) 138–145 Gobo 1 - Shaking Rotation (wheel slot 2) 146–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–161 Gobo 3 - Shaking Rotation (wheel slot 4) 162–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–177 Gobo 5 - Shaking Rotation (wheel slot 6) 178–185 Gobo 6 - Shaking Rotation (wheel slot 7) 186–193 Gobo 7 - Shaking Rotation (wheel slot 8) 194–199 Gobo 8 - Shaking Rotation (wheel slot 9) 200–201 Open/Hole (wheel slot 1) 202–219 Fast to slow - Fast 220–222 Fast to slow - slow 223–238 Slow to fast - slow 239–243 Slow to fast - fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
22	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–255 Slow to fast - Fast
23	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
24	Prism	0	0–19 Open position (hole) (wheel slot 1) 20–73 Prism 1 Indexing (wheel slot 2) 74–127 Prism 1 Rotation (wheel slot 2) 128–135 Macro 1 136–143 Macro 2 144–151 Macro 3 152–159 Macro 4 160–167 Macro 5 168–175 Macro 6 176–183 Macro 7 184–191 Macro 8 192–199 Macro 9 200–207 Macro 10 208–215 Macro 11 216–223 Macro 12 224–231 Macro 13 232–239 Macro 14 240–247 Macro 15 248–255 Macro 16
25	Prism Rotation	0	0–0 Prism Indexing 1–124 Fast to slow - fast 125–127 Fast to slow - slow 128–128 No rotation middle 129–232 Slow to fast - slow 233–255 Slow to fast - fast
26	Frost1	0	0–0 Open 1–189 Frost 0% to 100% 190–211 Pulse close - slow to fast 212–233 Pulse open - fast to slow 234–255 Ramping - fast to slow
27	Iris	0	0–179 Open 180–191 Closed 192–216 Slow to fast 1/13 217–219 Slow to fast 13/13 220–243 Fast to slow 1/13 244–247 Fast to slow 13/13 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
28	Iris Fine	0	Fine byte of Iris
29	Zoom	128	
30	Zoom Fine	0	Fine byte of Zoom
31	Focus	128	
32	Focus Fine	0	Fine byte of Focus
33	Shaper Rot	128	
34	Blade1A	0	
35	Blade1Rot	128	
36	Blade4A	0	
37	Blade4Rot	128	
38	Blade3A	0	
39	Blade3Rot	128	
40	Blade2A	0	
41	Blade2Rot	128	

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
42	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast 1/12 0.3–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast 1/7 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow 1/7 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
43	Dimmer	0	0–254 Closed 255–255 Open
44	Dimmer Fine	0	Fine byte of Dimmer

Mode 2 - enhanced gobo control

45 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min

Mode 2 - enhanced gobo control (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–31 Fans ON at blackout 32–33 Fans OFF at blackout 34–35 Dimmer curve: Super square law 36–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–64 BO while color wheels moving: ON 65–69 BO while color wheels moving: OFF 70–74 BO while Gobo moving: ON 75–79 BO while Gobo moving: OFF 80–84 Fans mode: Auto 85–89 Fans mode: High 90–99 NoFeature 2 100–104 Focus tracking ON 105–109 Focus tracking OFF 110–114 Dimmer curve: Square law 115–119 Dimmer curve: Linear 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–159 Color system reset 160–169 Gobo and Effect wheel reset 170–174 Pan reset 175–179 Tilt reset 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–218 NoFeature 3 219–220 Gobo indexing: Maximum speed and shortcut 221–222 Gobo indexing: Follow speed and follow direction 223–224 Gobo indexing: Maximum speed and follow directi… 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
8	L EDFrequency Adjust	128	

Mode 2 - enhanced gobo control (continued)

Ch	Function	Default	DMX values
9	Intensity Indication	0	0–10 No function 11–20 Indication of drop of max light intensity 21–30 Set drop by 6-10% (RED) 31–40 Set drop by 11-15% (GREEN) 41–50 Set drop by 16-20% (BLUE) 51–60 Set drop by 21-25% (CYAN) 61–70 Set drop by 26-30% (MAGENTA) 71–80 Set drop by 31-35% (YELLOW) 81–90 Set drop by 36-40% (ORANGE) 91–100 Original intensity (WHITE) 101–255 NoFeature
10	Color Wheel	0	0–5 Open/white - continual (wheel slot 1) 6–17 Deep red (wheel slot 2) 18–31 Deep blue (wheel slot 3) 32–44 Light green (wheel slot 4) 45–56 Lavender (wheel slot 5) 57–69 Orange (wheel slot 6) 70–82 Multicolor (wheel slot 7) 83–95 Filter CRI 90 (wheel slot 8) 96–108 CTO 3200K (wheel slot 9) 109–120 Congo blue (wheel slot 10) 121–127 Open (wheel slot 1) 128–129 Open - step (wheel slot 1) 130–136 Deep red - step (wheel slot 2) 137–142 Deep blue - step (wheel slot 3) 143–149 Light green - step (wheel slot 4) 150–155 Lavender - step (wheel slot 5) 156–162 Orange - step (wheel slot 6) 163–168 Multicolor - step (wheel slot 7) 169–175 Filter CRI 90 - step (wheel slot 8) 176–182 CTO 3200K - step (wheel slot 9) 183–189 Congo blue - step (wheel slot 10) 190–211 Fast to slow - fast 212–215 Fast to slow - slow 216–217 No Rotation middle 218–240 Slow to fast - slow 241–243 Slow to fast - fast 244–249 Random color selection by audio control 250–255 Auto random color selection from fast to slow
11	Color Wheel Fine	0	Fine byte of Color Wheel
12	Cyan	0	
13	Magenta	0	
14	Yellow	0	
15	C TO	0	0–46 6700 47–71 6000 72–112 5600 113–134 5000 135–158 4800 159–182 4500 183–205 4000 206–227 3600 228–235 3200 236–248 3000 249–254 2800 255–255 2700
16	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
17	Color Macro1	0	

Mode 2 - enhanced gobo control (continued)

Ch	Function	Default	DMX values
18	Color Mix MSpeed	0	0–0 Function is OFF 1–254 max 255–255 min
19	Focus MSpeed	0	0–0 Function is OFF 1–254 max 255–255 min
20	Gobo	0	0–8 Open/hole (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–80 Gobo 8 (wheel slot 9) 81–91 Gobo 9 (wheel slot 10) 92–103 Gobo 1 - Shaking Index (wheel slot 2) 104–115 Gobo 2 - Shaking Index (wheel slot 3) 116–127 Gobo 3 - Shaking Index (wheel slot 4) 128–139 Gobo 4 - Shaking Index (wheel slot 5) 140–151 Gobo 5 - Shaking Index (wheel slot 6) 152–163 Gobo 6 - Shaking Index (wheel slot 7) 164–175 Gobo 7 - Shaking Index (wheel slot 8) 176–187 Gobo 8 - Shaking Index (wheel slot 9) 188–199 Gobo 9 - Shaking Index (wheel slot 10) 200–201 Open/hole (wheel slot 1) 202–219 Fast to slow - fast 220–222 Fast to slow - slow 223–238 Slow to fast - slow 239–243 Slow to fast - fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 2 - enhanced gobo control (continued)

Ch	Function	Default	DMX values
21	Gobo 2	0	0–9 Open/hole (wheel slot 1) 10–13 Gobo 1 (wheel slot 2) 14–17 Gobo 2 (wheel slot 3) 18–21 Gobo 3 (wheel slot 4) 22–25 Gobo 4 (wheel slot 5) 26–29 Gobo 5 (wheel slot 6) 30–33 Gobo 6 (wheel slot 7) 34–37 Gobo 7 (wheel slot 8) 38–41 Gobo 8 (wheel slot 9) 42–45 Gobo 1 - Rotation (wheel slot 2) 46–49 Gobo 2 - Rotation (wheel slot 3) 50–53 Gobo 3 - Rotation (wheel slot 4) 54–57 Gobo 4 - Rotation (wheel slot 5) 58–61 Gobo 5 - Rotation (wheel slot 6) 62–65 Gobo 6 - Rotation (wheel slot 7) 66–69 Gobo 7 - Rotation (wheel slot 8) 70–73 Gobo 8 - Rotation (wheel slot 9) 74–80 Open prop index (wheel slot 1) 81–87 G01 Prop Index (wheel slot 2) 88–94 G02 Prop Index (wheel slot 3) 95–101 G03 Prop Index (wheel slot 4) 102–108 G04 Prop Index (wheel slot 5) 109–115 G05 Prop Index (wheel slot 6) 116–122 G06 Prop Index (wheel slot 7) 123–129 G01 Prop Index (wheel slot 8) 130–136 G01 Prop Index (wheel slot 9) 137–137 Open prop index (wheel slot 1) 138–144 Open Prop Rot (wheel slot 1) 145–151 G01 Prop Rot (wheel slot 2) 152–158 G01 Prop Rot (wheel slot 3) 159–165 G01 Prop Rot (wheel slot 4) 166–172 G01 Prop Rot (wheel slot 5) 173–179 G01 Prop Rot (wheel slot 6) 180–186 G01 Prop Rot (wheel slot 7) 187–193 G01 Prop Rot (wheel slot 8) 194–200 G01 Prop Rot (wheel slot 9) 201–201 Open Prop Rot (wheel slot 1) 202–219 Fast to slow - Fast 220–222 Fast to slow - slow 223–238 Slow to fast - slow 239–243 Slow to fast - fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
22	Gobo 2 Fine	0	Fine byte of Gobo 2
23	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–255 Slow to fast - Fast
24	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 2 - enhanced gobo control (continued)

Ch	Function	Default	DMX values
25	Prism	0	0–19 Open position (hole) (wheel slot 1) 20–73 Prism 1 Indexing (wheel slot 2) 74–127 Prism 1 Rotation (wheel slot 2) 128–135 Macro 1 136–143 Macro 2 144–151 Macro 3 152–159 Macro 4 160–167 Macro 5 168–175 Macro 6 176–183 Macro 7 184–191 Macro 8 192–199 Macro 9 200–207 Macro 10 208–215 Macro 11 216–223 Macro 12 224–231 Macro 13 232–239 Macro 14 240–247 Macro 15 248–255 Macro 16
26	Prism Rotation	0	0–0 Prism Indexing 1–124 Fast to slow - fast 125–127 Fast to slow - slow 128–128 No rotation middle 129–232 Slow to fast - slow 233–255 Slow to fast - fast
27	Frost1	0	0–0 Open 1–189 Frost 0% to 100% 190–211 Pulse close - slow to fast 212–233 Pulse open - fast to slow 234–255 Ramping - fast to slow
28	Iris	0	0–179 Open 180–191 Closed 192–216 Slow to fast 1/13 217–219 Slow to fast 13/13 220–243 Fast to slow 1/13 244–247 Fast to slow 13/13 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
29	Iris Fine	0	Fine byte of Iris
30	Zoom	128	
31	Zoom Fine	0	Fine byte of Zoom
32	Focus	128	
33	Focus Fine	0	Fine byte of Focus
34	Shaper Rot	128	
35	Blade1A	0	
36	Blade1Rot	128	
37	Blade4A	0	
38	Blade4Rot	128	
39	Blade3A	0	
40	Blade3Rot	128	
41	Blade2A	0	
42	Blade2Rot	128	

Mode 2 - enhanced gobo control (continued)

Ch	Function	Default	DMX values
43	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast 1/12 0.3–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast 1/7 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow 1/7 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
44	Dimmer	0	0–254 Closed 255–255 Open
45	Dimmer Fine	0	Fine byte of Dimmer